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SHEET PROCESSING APPARATUS, METHOD OF USE, AND PLASTICALLY DEFORMED SHEET

ABSTRACT

An apparatus for plastically deforming a work piece in the form of a sheet, comprising at least two cylindrical guide rolls rotatable in a first direction, each of said cylindrical guide rolls having an outer circumference; a bendable strip having a portion of at least one surface in communication with a portion of the outer circumference of each of the at least two guide rollers, said bendable strip being capable of motion around the at least two guide rollers in the first direction and exerting a force upon a work piece, a first cylindrical feeding roll rotatable in a second direction opposite to the first direction, said first cylindrical feeding roll having an outer circumference, a plastic deformation passage having a first surface and a second surface, at least a portion of the first surface being defined by a portion of the bendable strip, and at least a portion of the second surface being defined by the outer circumference of the first cylindrical feeding roll, wherein one or both of the bendable strip and the cylindrical feeding roll, when in motion, propel the work piece through the plastic deformation passage wherein it is plastically deformed.